

22 September 1974 - Sunday

Drs. Donald Hood, Frank Manheim, Ted Folsom, and Robert Duce arrived in Moscow at noon and were greeted at the airport by Professor Anatoly Simonov, Dr. Alla Tsiban, and Mr. Vjacheslav Sypakov, who would be our guide during our stay in the Soviet Union. We were taken to our hotel and did a little sightseeing that afternoon.

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Pollution
from
Marine
Organisms

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23 September 1974 - Monday

We visited the Institute of Oceanology of the Academy of Sciences during the entire day. We visited with Professor Monin, the director, who described the work of the Institute. Short visits and discussions followed with other scientists, including Acad. Michael Vinogradov, who described his work on plankton communities; Dr. Boldovsky, who described his studies on organic compounds in the marine environment; Dr. Yury Bogdanov, who is investigating trace metals in suspended sediments; and Dr. Simeon Meilikovsky, who is concerned with a variety of near shore and estuarine problems.

During the evening we attended the ballet with Dr. Alla Tsiban and afterward had dinner in the apartment of Dr. Popov and his wife, old friends of Dr. Folsom.

24 September 1974 - Tuesday

During the morning and early afternoon we visited the Institute of Oceanography of the Hydrometeorological Services. Professor Simonov, who is head of the chemical oceanography group, met us and we were introduced to the following people:

Professor Alexei Murontsev, Vice-Director of the Institute of Oceanography

Dr. Goptariov, chief of the laboratory of hydrologic processes

Dr. Oradovski, chief of the chemistry laboratories, under Professor Simonov.

Dr. Smagin, chief of the laboratory of geochemistry, Arctic and Antarctic Institute, Leningrad.


Dr. Patin, representing fisheries oceanography, who studies radioactive isotopes.

Senior engineer Kuznetsov

Dr. Alla Tsiban, working in marine microbiology and pollution

Dr. E. Borisov, a physical oceanographer studying pollution transport problems.

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Each of us presented 20-30 minute technical discussions of our research interests, with slides. After this we had time for a very short tour of a few laboratories before catching a train, which would take us overnight to Simferopol.

25 September 1974 - Wednesday

We were met at Simferopol by Professor G.G. Polikarpov and taken by car to Yalta, where we would have our accommodations during our stay in the Crimea. The remainder of the day was filled with sightseeing.

26 September 1974 - Thursday

We drove to Sevastopol and were greeted at the Institute of Biology of the South Seas by Professor Polikarpov. We then met the Deputy Director, Professor Mironov, who described the various programs at the Institute. We had a tour of the Biodegradation Laboratory, the Ichthyology Department, the Mammal Physiology Department, the Marine Fouling Department, and the Plankton Department. In the afternoon we each presented 35-40 minute lectures. We departed for Yalta at about 6:30 p.m.

27 September 1974 - Friday

We spent most of the day at Professor Polikarpov's new Radiocology Laboratory, which is a few miles from, but administratively part of, the Institute of Biology of the South Seas. We had an interesting tour of the laboratory and discussions with many of the scientists, including Dr. K. Khaylov, investigating ecological metabolism problems; Dr. Parchevsky, studying the interaction between humic acid and various radionuclides; and Dr. V. Ivanov, investigating the effects of radionuclides on chromosomes of marine organisms.

In the late afternoon we went to the Hydrophysical Institute where we met with the director, Dr. Nelepo, and members of his staff. Dr. V.P. Baronnik, head of the Hydrochemistry Department, described their work and showed us some chemical instrumentation they have developed. We departed for Yalta at about 6 p.m.

28 September 1974 - Saturday

We went again to Professor Polikarpov's Radioecology Laboratory where we individually continued more detailed discussions with various members of his staff. We had a fine dinner prepared for us in the laboratory by people on the staff and spent the rest of the afternoon sightseeing in Sevastopol. Our welcome in Sevastopol was particularly warm and scientific contacts were made which have already lead to some cooperative research efforts.

29 September 1974 - Sunday

The entire day was devoted to the arduous task of attempting to get from Yalta to Leningrad by car, bus, and air, which we finally did at about midnight.

30 September 1974 - Monday

We visited the Main Geophysical Observatory in Leningrad, arriving in the late morning. We were greeted by Professor Rusin, the Deputy Director, who described the organization and some of the research problems they undertake. The Observatory has twelve departments. They are listed with the Department heads below:

Dynamic Meteorology - Professor M. I. Yudin
Solar-Terrestrial Relationships - Professor E. Borisenkov
Physical Climatology - Professor M. I. Budyko
Applied Climatology - Dr. I. D. Kopanev
Atmospheric Diffusion and Air Pollution - Professor
M. E. Berlyand
Boundary Layer Physics - Dr. A. S. Dubov
Radiation Studies - Professor K. Ya. Kondratiev
Actinometry - Dr. G. P. Gushkin
Cloud Physics - Professor N. S. Shishkin
Atmospheric Electricity - Dr. V. P. Kolokolov
Instruments and Observations - Dr. D. P. Bespalov
Computer Meteorology - Dr. B. M. Ilyin

We met with Professor Berlyand, Dr. I. V. Vasilchenko, and Dr. E. Selezneva, who described their studies in air pollution in urban and remote areas. During the afternoon Drs. Folsom and Duce presented 45-minute lectures on their work. In the evening we attended the Leningrad Circus.

1 October 1974 - Tuesday

During the morning we were taken on a tour of Leningrad. In the afternoon we visited the Arctic and Antarctic Institute where we were met by the Deputy Director, Dr. B. A. Krutskikh. He described their research programs which are organized into ten departments: Forecasting, Meteorology (Dr. A. I. Voskesensky), Oceanography (Dr. F. M. Mustafin), Geophysics, Radiophysical Methods, Polar Geography, Water Conservation (Dr. V. I. Smagin), Long Range Weather Forecasting, Sea Ice, and Ships. Dr. Smagin heads their program in marine pollution.

We left Leningrad at 11 p.m. by train for Moscow.

2 October 1974 - Wednesday

We were met at the train station by Dr. Kazakov and Dr. Victor Maximov, who took us to Moscow State University. We spent the remainder of the day there in the Department of Radiochemistry. Our host was Assistant Professor Vitaly Karelin, and we visited for a short time with the department head, Acad. Andrei Nesmyanov. Drs. Hood and Folsom presented 30-minute lectures to the department staff on their work. During the afternoon we had a tour of the department laboratories, where we had an opportunity to see their equipment and facilities and talk with various investigators. We were accompanied on our tour by Dr. Elene Andonina and Dr. Yuri Sopojinoff.

During the evening we had a dinner at a local restaurant for Dr. and Mrs. Popov.

3 October 1974 - Thursday

Dr. Hood departed for the United States in the morning. The rest of us drove to the city of Obninsk, about 120 Km outside of Moscow, where we spent the day at the Institute of Experimental Meteorology. We were very cordially treated at this laboratory and were given an extensive tour of the facilities. We were met by the Director, Dr. Yuri Sedunov, the Deputy Directors, Dr. Nikolai Slunyarev and Dr. Valoshchuk, the head of their atmospheric chemistry program, Dr. S. G. Malakhov, and the head of their radioactivity program Dr. S. M. Vakulovsky. The Institute has five departments: Agricultural Meteorology, Boundary Layer Meteorology, Environmental Contamination - Chemical, Environmental Contamination - Radioactivity, and Atmospheric Modelling. We had a chance to discuss in some detail their chemical and radioactivity

lectures of approximately 45 minutes each. After a very fine dinner we departed for Moscow at about 5:30 p.m.

4 October 1974 - Friday

We returned to Moscow State University where we spent most of the day with Professor Boris Tarusov in the Department of Biophysics. He described their studies of biological damage in organisms as a result of pollution and gave us an extensive tour of their laboratories. Dr. Yuri Petrusevitch and Dr. Vitaly Sineshchekov, who direct a number of the investigations under Professor Tarusov, also accompanied us.

During the evening Professor Simonov had a farewell dinner in our honor, attended by Dr. Tsiban, Professor Tarusov, Dr. Borisov, and others.

5 October 1974 - Saturday

The entire day was spent sightseeing in Moscow and preparing for our departure for the United States the next day.

6 October 1974 - Sunday

Departed for the United States early in the morning.